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DIA CORRES. SERIAL NO.	DEFENSE INTELLIGENCE AGENCY DOCUMENT TRANSMITTAL
C-55,155/DC-5C	

TO: O/DDI/SSG
GEO 442
HQ, CIA
25X1 ATTN: [redacted]

FROM: DEPARTMENT OF DEFENSE
DEFENSE INTELLIGENCE AGENCY
WASHINGTON, D.C. 20301
ATTN: DC-5C

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CONTROL NUMBER	COPY NO.	NO. COPIES	SUBJECT (Unclassified Preferred)	CLASSIFICATION
C-55,155/DC-5C	1	1	NMC MSG 7727	CONF
"	1	1	Tempest Test Rpt Experimental Image Compression Subsystems, dtd 20 December 1974	CONF
			////////NOTHING FOLLOWS////////////	

FOR THE DIRECTOR:

RELEASING AUTHORITY (Signature if required)
GEOFFREY H. LANGSAM, Chief, DC-5C

DATE: [illegible]

REMARKS (Include signature and command line if appropriate)

DIA review(s) completed.

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50-3

DEPARTMENT OF DEFENSE

NATIONAL MILITARY COMMAND CENTER

MESSAGE CENTER

200/43-3

VZCZCMLT567SCP319 C O N F I D E N T I A L

7727

MULTY
ACTION DIA: :DIA:(05)
DISTR OPR FILE(1)
(006)

TRANSIT/072154Z/072205Z/000:11GRP0424
DE RUEKJCS #4785 0072205
ZNY CCCCC
R 072154Z JAN 75
FM DIA WASH DC
TO RUFTDJA/497RECONTECHGP SCHIERSTEIN GERMANY
INFO RUCIGFA/RADC GRIFFISS AFB NY
RUFFECA/2065CS LINDSEY AS GERMANY
RUFRAAB/CINCUSAFE RAMSTEIN AB GERMANY
BT
C O N F I D E N T I A L 7727
497RECONTECHGP FOR INIO, RADC FOR IR, CINCUSAFE FOR DORY AND INO.
FROM SO-3
SUBJ: EXPERIMENTAL IMAGERY COMPRESSION SUBSYSTEM (EICS) (U)
REFS: A. 497RECONTECHGP MSG DTG241200Z DEC 74, B. HARRIS CORP.
TEMPEST TEST REPORT FOR EICS, DATED 10 DEC 74.
1. (C) THE FOLLOWING INFORMATION IS PROVIDED IN RESPONSE TO
REFERENCE A.:
A. THE SECOND PHASE OF THE EICS TEMPEST MODIFICATION EFFORT
RESULTED IN THE SUPPRESSION OF ALL COMPROMISING EMANATIONS RELATED
TO BOTH THE ANALOG AND DIGITAL SERIAL DATA. BIT DENSITY SIGNALS
WERE DETECTED AT 33, 42, AND 75 MHZ IN BOTH E-FIELD AND POWER LINE
CONDUCTED (PLC) DETECTION MODES. THESE SIGNALS WERE DETERMINED
TO BE CORRELATED TO THE 24 BIT PARALLEL TRANSFER WITHIN THE
MINICOMPUTER BUT WERE NOT COMPROMISING. A THEORETICAL 20 METER
ZONE OF CONTROL AND SURVEILLANCE WOULD BE REQUIRED TO ATTENUATE
THE SIGNALS TO NACSEM 5100 LEVELS.
B. IN VIEW OF THE FACT THAT NO COMPROMISING E-FIELD RADIATED
OR PLC SIGNALS WERE DETECTED, APPROVAL WAS GRANTED FOR THE USE OF THE
EICS TERMINALS IN THE WASHINGTON AREA.
C. THE FOLLOWING INSTALLATION REQUIREMENTS ARE ESSENTIAL TO
ENSURE BOTH THE PROPER OPERATION OF THE TERMINAL AND/OR THE
EFFECTIVENESS OF THE TEMPEST CONTROL MEASURES: POWER - 2 DEDICATED
60A-115U-60HZ CIRCUITS PER TERMINAL, GROUNDING - A LOW IMPEDANCE
SIGNAL GROUND FOR THE TERMINAL EQUIPMENT, SIGNAL LINES - IT IS
RECOMMENDED THAT THE MODEM AND KG-34 ENCRYPTOR BE INSTALLED IN A
LOCATION REMOTE FROM THE EICS IN ACCORDANCE WITH MIL-HDBK-232
RED/BLACK INSTALLATION CRITERIA. IF THEY MUST BE COLOCATED WITH

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THE EICS EQUIPMENT, MAXIMUM POSSIBLE SEPARATION SHOULD BE MAINTAINED. INTERCONNECTING SIGNAL LINES (3 PAIR) SHOULD BE ENCLOSED IN RIGID EMT (FERROUS OR NONFERROUS), TERMINATING IN A JUNCTION BOX WITHIN FOUR FEET OF THE PROPOSED EQUIPMENT LOCATION. CONNECTION FROM THE COMPUTER TO THE JUNCTION BOX SHOULD BE MADE VIA SHIELDED CABLE PROVIDED WITH THE EQUIPMENT.
2. (U) KG-34 ENCRYPTORS AND ACCOMPANYING CONTROL CARDS WILL BE SHIPPED VIA ARFCOS. TENTATIVE SHIPPING DATE IS FIRST WEEK OF FEBRUARY 1975. REQUEST YOU PROVIDE RECEIVING COMSEC ACCOUNT NUMBER AND FULL ARFCOS DELIVERY ADDRESS. XGDS-2
BT
#4705
ANNOTES
COM

NNNN
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